PROPRIETARY



South Texas Project Electric Generating Station 4000 Avenue F - Suite A Bay City, Texas 77414

September 16, 2009 U7-C-STP-NRC-090130 10 CFR 2.390 10 CFR 52

U. S. Nuclear Regulatory Commission Attention: Document Control Desk One White Flint North 11555 Rockville Pike Rockville, MD 20852-2738

> South Texas Project Units 3 and 4 Docket No. 52-012 and 52-013 Submittal of Combined License Application Revision 3

STP Nuclear Operating Company (STPNOC) submits Revision 3 to the South Texas Project Units 3 & 4 (STP 3 & 4) Combined License Application (COLA) (Reference 1) as an enclosure to this letter, and Safeguards Information to follow under separate cover. This letter contains attachments and enclosures providing the following:

- Attachment 1 "Affidavits for Withholding Proprietary Information under 10 CFR 2.390," on behalf of Nuclear Innovation North America (NINA) and City Public Service Board (CPS Energy).
- Attachment 2 "Summary of Preflight Evaluations," checks performed on the PDF files for each Part included with this submittal (Enclosures 1 and 2).
- Attachment 3 "Summary of Commitments," completed, revised, or added (new).
- Attachment 4 "Summary of Changes" incorporated into Revision 3 to the COLA (References 1 through 12).
- Attachment 5 "List of RAI Responses with Changes to the COLA," NRC staff Requests for Additional Information (RAI) which required changes to the COLA in the responses, incorporated as of Revision 3.
- Enclosures (2) Two DVDs containing Revision 3 to the COLA in PDF format, prepared in compliance with "Guidance for Electronic Submissions to the NRC." Each DVD contains a packing slip that explains the contents.

STI: 32528503

Enclosure 1 (DVD) provides a complete, non-proprietary and non-security-sensitive version of the STP 3 & 4 COLA suitable for public disclosure.

Enclosure 2 (DVD) provides a complete proprietary version of the STP 3 & 4 COLA and includes the proprietary and Security Sensitive information:

- Part 1 financial information (Proprietary)
- Part 2 various figures (Security Sensitive)
- Part 8, "Security Plans," contains Safeguards Information documents consisting of the Physical Security Plan, the Training and Qualification Plan, the Safeguards Contingency Plan, and the Cyber Security Plan, to follow under separate cover (References 4 and 5).
- An entirely new Part 11, "Mitigative Strategies Report 10 CFR 52.80(d)" (Security Sensitive)
- Part 10, "Proprietary Information," is unaffected and remains valid at the last submittal revision (Reference 6), and therefore is not included with this submittal.

The referenced ABWR Design Control Document (DCD), Tier 2 Chapter 20, "Question and Response Guide," is incorporated by reference in the COLA. Accordingly, previous requests for exemption from Appendix A to 10 CFR Part 52, Section IV.A.2.a, are withdrawn (References 1 and 2). The non-proprietary (public) version of Revision 4 to the ABWR DCD. as approved by the Design Certification Rule in Appendix A to 10 CFR Part 52, and incorporated by reference in the COLA, is available on the U.S. NRC website and on microfiche in ADAMS Public Legacy Library.

A summary of commitments is provided in Attachment 3.

Upon removal from Enclosure 2 (Proprietary Information), this letter is decontrolled.

If there are any questions regarding this submittal, please contact me at (361) 972-7206, or Bill Mookhoek at (361) 972-7274.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 9/16/2009

Mark A. McBurnett

Vice President, Oversight and Regulatory Affairs

South Texas Project Units 3 & 4

ccc

Attachments: As stated

Enclosures:

1. DVD, South Texas Project Units 3 & 4 COLA Rev. 03, Non-Proprietary

2. DVD, South Texas Project Units 3 & 4 COLA Rev. 03, Proprietary

References:

- 1. Letter, M. A. McBurnett to Document Control Desk, "Combined License Application," dated September 20, 2007, ABR-AE-07000004
- Letter, Scott Head to Document Control Desk, "Additional Information Concerning STP COLA Part 2 Chapter 20 Basis for Exemption, "dated December 11, 2008, U7-C-STP-NRC-080024 (ML083570600)
- 3. Letter, Scott Head to Document Control Desk, "Submittal of Mitigative Strategies Report 10 CFR 52.80(d)," dated May 26, 2009, U7-C-STP-NRC-090050 (ML091470723)
- 4. Letter, Scott Head to Document Control Desk, "Submittal of Proposed Revisions to STP COLA Part 2, 8, and 9," dated March 24, 2009, U7-C-STP-NRC-090024
- 5. Letter, Scott Head to Document Control Desk, "Submittal of STP Units 3 & 4 Cyber Security Plan," dated August 26, 2009, U7-C-STP-NRC-090110 (contains Safeguards Information)
- Letter, Scott Head to Document Control Desk, "Submittal of Combined License Application Part 10," dated December 11, 2008, U7-C-STP-NRC-080068 (ML083530131)
- 7. Letter, Scott Head to Document Control Desk, "Additional I&C Information," dated February 9, 2009, U7-C-STP-NRC-090009 (ML090430154)
- 8. Letter, Scott Head to Document Control Desk, "Response to Request for Additional Information," dated May 21, 2009, U7-C-STP-NRC-090048 (ML091460117)
- Letter, M. A. McBurnett to Document Control Desk, "Response to Request for Additional Information," dated August 18, 2009, U7-C-STP-NRC-090107 (ML092320101)
- Letter, M. A. McBurnett to Document Control Desk, "Response to Request for Additional Information," dated July 15, 2009, U7-C-STP-NRC-090074 (ML092010088)
- 11. Letter, Scott Head to Document Control Desk, "Response to Request for Additional Information," dated March 30, 2009, U7-C-STP-NRC-090021 (Proprietary)
- 12. Letter, Scott Head to Document Control Desk, "Response to Request for Additional Information," dated June 29, 2009, U7-C-STP-NRC-090066 (ML091830339)

cc: w/o attachment except* (paper copy)

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ATTACHMENT 1

AFFIDAVITS FOR WITHHOLDING PROPRIETARY INFORMATION UNDER 10 CFR 2.390

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

In the Matter of)	
)	,
STP Nuclear Operating Company)	Docket Nos. 52-012
)	& 52-013
South Texas Project Units 3 and 4)	

AFFIDAVIT

- I, Steven Winn, President of NINA Texas 3 LLC, NINA Texas 4 LLC, NINA Investments LLC, and Nuclear Innovation North America LLC, and Executive Vice President of NRG Energy, Inc., hereby affirm and state:
- 1. I am authorized to execute this affidavit on behalf of NINA Texas 3 LLC, NINA Texas 4 LLC, NINA Investments LLC, Nuclear Innovation North America LLC, and NRG Energy, Inc.
- 2. NINA Texas 3 LLC & NINA Texas 4 LLC are providing information to support its application for a Combined License for STP Units 3 & 4. The information being provided is located in Part I of the application and contains financial projections related to its ownership of the South Texas Project Electric Generating Station. The application also contains proprietary commercial and financial information that should be held in confidence by the NRC pursuant to the policy reflected in 10 CFR2.390(a)(4), because:
 - This information is and has been withheld in confidence by NINA Texas 3 LLC, NINA Texas 4 LLC and their affiliates.
 - ii. This information is of a type that is customarily held in confidence by NINA Texas 3 LLC, NINA Texas 4 LLC and their affiliates, and there is a rational basis for doing so because the information contains sensitive financial information concerning projected revenues and operating expenses of NINA Texas 3 LLC and NINA Texas 4 LLC.
 - iii. This information is being transmitted to the NRC voluntarily and in confidence.
 - iv. This information is not available in public sources and could not be gathered readily from other publicly available information.
 - v. Public disclosure of this information would create substantial harm to the competitive position of NINA Texas 3 LLC, NINA Texas 4 LLC and their affiliates by disclosing its internal financial projections.
- 3. The proprietary information in the COLA is marked with the beginning designation "[s5]" and the ending designation "[e5]." The "5" corresponds to the numbering system used in the NRC's guidance on categories of proprietary information defined in 10 CFR 2.390 and clarified by RIS-2004-11.
- 4. Accordingly, NINA Texas 3 LLC and NINA Texas 4 LLC request that the designated portions of the COLA be withheld from public disclosure pursuant to 10 CFR 2.390(a)(4).

U7-C-STP-NRC-090130

Attachment 1

Page 2 of 4

Steven Wind

President & CEO, Nuclear Innovation North America LLC President, NINA Texas 3 LLC & NINA Texas 4 LLC EVP, NRG Energy, Inc.

STATE OF TEXAS

)

COUNTY OF HARRIS

JAMEY SEFLY
Notary Public, State of Texas
My Commission Expires
Morch 19, 2012

Subscribed and sworn to me, a Notary Public, in and for the state of Texas, this 3rd day of September, 2009.

NUCLEAR REGULATORY COMMISSION

In the	Matter of)	
	STP Nuclear Operating Company)	Docket Nos. 52-012 and 52-013
	South Texas Project Units 3 and 4)	

AFFIDAVIT

I. Michael K. Kotara, state as follows:

- I am Executive Vice President, for the City of San Antonio acting by and through the City Public Service Board ("CPS Energy") and I have been delegated the function of reviewing the information described in paragraph (2) which is sought to be withheld, and have been authorized to apply for its withholding.
- 2. CPS Energy is providing information to support its application for a Combined License for STP Units 3 & 4. The information being provided is located in Part 1 of the application and contains financial projections related to its ownership of the South Texas Project Electric Generating Station. It also contains proprietary commercial and financial information that should be held in confidence by the NRC pursuant to the policy reflected in 10 CFR2.390(a)(4), because:
 - i. This information is and has been withheld in confidence by CPS Energy and its affiliates.
 - ii. This information is of a type that is customarily held in confidence by CPS Energy and its affiliates, and there is a rational basis for doing so because the information contains sensitive financial information concerning projected revenues and operating expenses of CPS Energy.
 - iii. This information is being transmitted to the NRC voluntarily and in confidence.
 - iv. This information is not available in public sources and could not be gathered readily from other publicly available information.
 - v. Public disclosure of this information would create substantial harm to the competitive position of CPS Energy and it affiliates by disclosing its internal financial projections.
- 3. The proprietary information in the COLA is marked with the beginning designation "[s5]" and the ending designation "[e5]." The "5" corresponds to the numbering system used in the NRC's guidance on categories of proprietary information defined in 10 CFR 2.390 and clarified by RIS-2004-11.
- 4. Accordingly, CPS Energy requests that the designated portions of the COLA be withheld from public disclosure pursuant to 10 CFR 2.390(a)(4).

I declare under penalty of perjury that the foregoing affidavit and the matters stated therein are true and correct to the best of my knowledge, information, and belief.

Executed on this $\frac{3^{rd}}{2}$ day of September 2009.

Executive Vice President, Energy Development CPS Energy

STATE OF TEXAS

COUNTY OF BEXAR

The signature above was subscribed and sworn before and to me, a Notary Public, in and for the State of Texas, this 3nd day of September, 2009.

Notary
Texas Notary No.: 52470-0

(SEAL)

ATTACHMENT 2

SUMMARY OF PREFLIGHT EVALUATIONS

All submittal PDF files were prepared with Adobe Acrobat Version 8 using the current Job Options file provided by the NRC on its web site. All files passed the preflight check (using the latest NRC preflight profile provided on its web site) except a few files that contained scanned pages that were processed by the Acrobat Optical Character Recognition (OCR) process. In these cases, an error is generated for lack of embedded fonts in the files. This is due to the known and documented inability of Acrobat to embed the fonts in a scanned and OCR processed file.

SUMMARY OF COMMITMENTS

The following table provides a summary of commitments completed, revised, or added in Revision 3 to the COLA.

COLA Section (Commitment Number)	Commitment Summary	Milestone	Commitment Type
Part 2			
Section 2.4S (COM 2.4S-2)	Monthly groundwater levels will be collected through December 2007 from STP 3 & 4 observation wells and updated in the FSAR.	Future COLA update	Completed
Section 2.5S (COM 2.5S-1)	Resonant Column Torsional Testing results will be added to the FSAR.	3 rd Quarter of 2008	Completed
Section 2.5S (COM 2.5S-2)	Confirmatory subsurface investigation to accommodate addition of a Radwaste Building in the STP 4 area will be updated in FSAR.	Future COLA Update	Completed
Appendix 3H (COM 3H-2)	Final seismic analysis of site-specific Category I structures to be updated in the FSAR.	Third quarter of 2008	Completed
Section 5.3 (COM 5.3-1)	Fracture toughness for actual materials in pressure vessel will be added to the FSAR.	One year prior to on-site acceptance of pressure vessel	Revised
Section 6.1 (COM 6.1-2)	Analysis of the amount and acceptability of containment coatings not meeting RG 1.54 and ANSI N101.2 will be done in accordance with Appendix B program and available for NRC review.	Prior to completion of pre-operational testing	Revised
Section 9.1 (COM 9.1-6)	As built analysis will be provided to the NRC showing that RHR system is adequately protected from internal hazards such as pipe whip and flooding.	Prior to Fuel Load	Revised
Section 19Q (COM 19Q-1)	Administrative procedure is in place to cope with impending hurricanes.	Prior to Fuel Load	Deleted

COLA Section (Commitment Number)	Commitment Summary	Milestone	Commitment Type
Part 5			
Section B (COM EP-1)	A letter of agreement from the NSSS Vendor will be obtained to support Emergency Plan for an event at STP 3 & 4 on a 24/7 basis.	Prior to start of construction	Completed
Part 11			1
Section 4.0 08-18140-8	Validate the currently identified pre-positioned equipment and material staging area will support the site. If the identified position will not support the site identify one that will and enter into the appropriate procedures.	Prior to Fuel Load	New
Section 4.0 08-18140-2	Evaluate if an additional assembly area is required for Units 3 & 4. If determined additional assembly area(s) are required ensure these are located a minimum distance of 100 yards from target areas or sufficiently protected.	Prior to Fuel Load	New
Section 4.0 08-18140-5	Evaluate if an additional triage and helipad area are required for Units 3 & 4 document in the appropriate procedures/guidelines.	Prior to Fuel Load	New
Section 4.1 Include in appropriate procedures to provide alternate on-site water sources in the event the normal supply source is unavailable and an alternate feed path to the fire protection system ring header from the portable trailer mounted diesel driven pump.		Prior to Fuel Load	New
Section 4.0 08-18140-51	Establish LOLA event guidelines that will be implemented and trained on as part of the operational training program.	Prior to Fuel Load	New
Section 4.0 08-18140-21	Develop a procedure to manually open the vent path valves in the event of a loss of all ac and dc power.	Prior to Fuel Load	New

COLA Section (Commitment Number)	Commitment Summary	Milestone	Commitment Type
Section 4.0 08-18140-52	Develop additional operational contingency action items for compensatory functions in the event of loss of normal and emergency plant systems.	Prior to Fuel Load	New
Section 4.0 08-18140-56	Evaluate the considerations for equipment survivability and personnel accessibility within plant areas.	Prior to Fuel Load	New
Section 4.0 08-18140-26	Review detailed design requirements to ensure that when feasible and practical Units 3 & 4 pre-configure the spent fuel pool to enable direct placement of the expended assemblies from the reactor vessel to the final preferred configuration. Where this is infeasible or impractical, the fuel should be distributed into the final preferred configuration as soon as possible but no later than 60 days after subcriticality.	Prior to Fuel Load	New
Section 4.0 08-18140-27	STP Units 3 & 4 will ensure highest decay power assemblies should not be located in rack cells positioned above the rack feet. Procedural guidance will be prepared to identify this criterion.	Prior to Fuel Load	New
Section 4.0 08-18140-53	Prepare a plant procedure to include enhancing natural circulation air cooling of spent fuel in the pool by promoting passive ventilation of the bulk air space above the pool with the environs (e.g., opening doorways or blowout panels after an event).	Prior to Fuel Load	New
Section 4.0 Section 6.0 08-18140-54	Prepare a plant procedure to provide for emergency pool water makeup, and pool leakage reduction and/or emergency repair measures, as well as implementing actions to address adverse radiological conditions.	Prior to Fuel Load	New

COLA Section (Commitment Number)	Commitment Summary	Milestone	Commitment Type
Section 4.0 08-18140-25	A training performance improvement analysis will be completed for STP Units 3 & 4. Initial training programs will be reviewed and revised as necessary. Operations, including fire brigade personnel, security, and emergency response organization personnel will be trained on imminent airborne threat procedures and mitigation procedures. Initial training programs for operations, security, and ERO will be revised to include any revised mitigation strategies prior to fuel load. A station conduct of drills and exercises procedure will specify that ERO drills involving large fires will be conducted every three years, and that integrated security, operations and ERO drills will be conducted every six years.	Prior to Fuel Load	New
Section 4.0 08-18130-28	Ensure spray scrubbing runoff is outlined within the integrated spill contingency plan.	Prior to Fuel Load	New
Section 4.0 08-18140-29	Ensure a strategy is developed to direct the ERO to consider use of water spray scrubbing.	Prior to Fuel Load	New
Section 4.0 08-18140-55	Conduct an evaluation of existing dose projection models for their adequacy in projecting doses to event responders onsite under the conditions envisioned for the loss of large area due to fire/explosion.	Prior to Fuel Load	New
Section 4.1 08-18140-23	Review and modify site procedures to incorporate Units 3 & 4 available water sources and pumping methods which may be applicable to support a site wide response to loss of large area event.	Prior to Fuel Load	New
Section 4.2 08-18140-11	Locate communication devices, spare batteries and chargers near the control room or other suitable area.	Prior to Fuel Load	New

COLA Section (Commitment Number)	Commitment Summary	Milestone	Commitment Type
Section 4.2 08-18140-47	Ensure sufficient number of communication devices will be available for recovery teams.	Prior to Fuel Load	New
Section 4.2 08-18140-48	Position communication devices for responding plant personnel in appropriate locations.	Prior to Fuel Load	New
Section 4.2 08-18140-49	Ensure multiple communication channels will be available onsite that are available and dedicated to various work groups to include all four unit control rooms, fire brigade, security and ERO.	Prior to Fuel Load	New
Section 4.2 08-18140-50	Ensure fire brigade members will be capable of communicating with the control room via a separate channel or other means.	Prior to Fuel Load	New
Section 5.1 08-18140-32	Include in the development of procedures for fire protection to address the isolation of damaged fire headers post event.	Prior to Fuel Load	New
Section 6.2 08-18140-37	Design a dry-pipe system consisting of 2 separate trains that are physically located in opposite corners of the SFP and is routed from ground level elevation to the SFP elevation. Each standpipe contains a check valve and/or associated valves to maintain reactor building envelope. System should be designed to ensure at least a 500 gpm flow is available to the SFP. A permanent monitor nozzle and a 4 inch valve aimed at the SFP should be provided at each end of the standpipe.	Prior to Fuel Load	New
Section 6.0 Section 6.3 08-18140-36	Develop appropriate SFP leakage control strategies and procedure guidance that will list the typical material and expected material locations.	Prior to Fuel Load	New
Section 7.1 08-18140-38	Develop extreme damage mitigating guides as described in NEI 06-12 Revision 2.	Prior to Fuel Load	New

COLA Section (Commitment Number)	nitment		Commitment Type
Section 7.4 08-18140-39	Develop training on manual operation of the RCIC turbine; include in field level instrumentation capabilities and working environment while operating the RCIC manually.	Prior to Fuel Load	New
Section 7.4 08-18140-40	Develop a procedure for manual operation of the RCIC turbine; include in field level instrumentation capabilities. Include in precautions the environmental conditions that may be present during operations in manual.	Prior to Fuel Load	New
Section 7.6 08-18140-41	Develop a procedure for providing make-up to the condensate storage tank from the other unit's DWST or one of the Prover tanks or using portable skid mounted diesel driven pump supplied from these and other available water sources.	Prior to Fuel Load	New
Section 7.7 Section 7.10 08-18140-42	Develop a procedure for supplying water to the containment (drywell) or the reactor pressure vessel employing the ACIWA system and/or the portable trailer mounted diesel driven pump.	Prior to Fuel Load	New
Section 7.8 08-18140-43			New
Section 7.11 08-18140-44			New
Section 7.12 08-18140-45	Develop a procedure to maximize control rod drive flows in the event of a LOCA.	Prior to Fuel Load	New
Section 7.13 08-18140-46	Develop a procedure to isolate the clean-up water system.	Prior to Fuel Load	New

SUMMARY OF CHANGES

The following table is a summary of changes incorporated into Revision 3 to the COLA.

Description of Change	Reference (Refer to Cover Letter)
Responses to NRC staff Requests for Additional Information (RAIs) which require a change to the COLA are incorporated, as listed.	Attachment 5
The referenced ABWR DCD, Tier 2 Chapter 20, "Question and Response Guide," is incorporated by reference. Accordingly, previous requests for exemption from Appendix A to 10 CFR Part 52, Section IV.A.2.a, are withdrawn.	References 1 and 2
Part 11, "Mitigative Strategies Report 10 CFR 52.80(d)," is submitted as an entirely new Part to the COLA and incorporates the previous Security Sensitive report submitted in response to 10 CFR 52.80(d) and 10 CFR 50.54 (hh)(2).	Reference 3
Changes in response to recent rulemaking:	References 4 and 5
• Fitness for Duty (10 CFR 26) in Part 2, Tier 2 Section 13.7	,
 Cyber Security Program (10 CFR 73.54) in Part 2, Tier 2 Section 13.6.3 (Safeguards Information) 	
 Physical Security Plan (10 CFR 73.55) in Part 8 (Safeguards Information) 	
Additional design information related to the Ultimate Heat Sinks.	None
Minimum Shear Wave Velocities and Soil-Structure Interactions design documentation to support STD DEP T1 5.0-1.	None
Additional changes due to Instrumentation and Controls (I&C) platform departures, providing information items needed by the NRC staff to complete review of the sections of the COLA related to I&C.	Reference 7
Three new standard departures from the Generic Technical Specifications, described in Part 7, Generic DCD Departures Report, Section 2.2:	References 8 and 9 Interim Staff Guidance ISG-08
 STD DEP 16.5-5, "TS 5.2.2 Unit Staff – Working Hours" 	
 STD DEP 16.3-95, "LCO 3.2.3 Linear Heat Generation Rate (LHGR) (Non-GE Fuel)" 	
■ STD DEP 16.3-96, "LCO 3.4.1, RIPs Operating"	

Description of Change	Reference (Refer to Cover Letter)
Changes to the Technical Specifications in conformance with Interim Staff Guidance ISG-08, including the following:	References 8 and 9 Interim Staff Guidance
 A new Technical Specification 5.5.2.11, "Setpoint Control Program (SCP)," governs the methodology for establishing the setpoints for instrumentation functions. 	ISG-08
 Technical Specification 5.7.1.6, "Reactor Coolant System (RCS) Pressure and Temperature Limits Report (PTLR)," identifies the analytical methods previously approved by the NRC for determining the pressure/temperature limits. 	
 All Technical Specification brackets have been filled in and the brackets removed in conformance with Interim Staff Guidance ISG-08 (Acceptance Review Item 6). 	
Two new Tier 2 standard departures:	Reference 10
• STD DEP 3B-2, "Revised Pool Swell Analysis," described in Part 7, Generic DCD Departures Report, new Section 2.3, "Tier 2 Departures from DCD Requiring Prior NRC Approval"	
• STD DEP 5.4-5, "Addition of a vent line from the Reactor Water Cleanup System Reactor Pressure Vessel (RPV) headspray line to the Reactor Head Vent Line," described in Part 7, Generic DCD Departures Report, Section 3.0, "Departures Not Requiring Prior NRC Approval"	
Company name changes to Nuclear Innovation North America (NINA) LLC, NINA Texas 3 LLC, and NINA Texas 4 LLC.	Reference 11
Part 3, Environmental Report, updates to include the Alternate Sites Analysis.	Reference 12
Various editorial changes to correct minor discrepancies.	None

LIST OF RAI RESPONSES WITH CHANGES TO THE COLA

The tables below provide NRC staff Requests for Additional Information (RAI) which require a change to the COLA in the response and are incorporated **as of Revision 3**.

RAI responses that require a change to the COLA and are not included in this table will be incorporated into the next routine revision to the COLA.

Table 1: Safety-Related RAI Responses

RAI	RAI	Part	Section(s)
Question No.	Letter No.		200302(0)
1-1	77	1	(various), Table 1.2-3, and Figure 1.1-1
1-2	77	1	1.2, Tables 1.2-1 and 1.2-2
02.01.02-1	11	2	Tier 2, Figure 2.1S-3
02.02.03-1	17	2	Tier 2, 2.2S, Appendix A
02.02.03-6	59	2	Tier 2, 2.2S.3, Tables 2.2S-10 and 2.2S-11
02.02.03-7	59	2	Tier 2, 2.2S.3, Tables 2.2S-3, 2.2S-10 and 2.2S-11
02.03.01-2	9	2	Tier 2, 2.3S.1
02.03.01-10	65	2	Tier 2, 2.3S.1
02.03.01-12	67	2	Tier 2, Table 2.0-1
02.03.01-13	67	2	Tier 1, Table 5.0 (Note 8)
02.03.01-14	68	2	Tier 2, 2.3S.1
02.03.01-15	69	2	Tier 2, 2.3S.1
02.03.01-16	69	2	Tier 2, 2.3S.1
02.03.01-18	69	2	Tier 2, 2.3S.1, Table 2.3S-1
02.03.01-20	69	2	Tier 2, 2.3S.2, Table 2.3S-5
02.03.01-21	92	2	Tier 2, 2.3S.1
02.03.01-5	9	2	Tier 2, 2.3S.1, Table 2.3S-3, Table 2.0-2, and 3H.6
02.03.01-6	9	2	Tier 2, 2.3S.1
02.03.01-7	9	2	Tier 2, 2.3S.1
02.03.01-8	9	2	Tier 2, 2.3S.1, and 9.2.5
02.03.02-5	70	2	Tier 2, 2.3S.2
02.03.02-6	70	2	Tier 2, 2.3S.2
02.03.02-7	84	2	Tier 2, 2.3S.2
02.03.03-6	71	2	Tier 2, 2.3S.3
02.03.04-4	63	2	Tier 2, 2.3S.3, 2.3S.4, Tables 2.3S-13 and 2.3S-14
02.03.04-5 (NOTE)	63	2	Tier 2, 2.3S.4, 2.3S.5, Tables 2.3S-21 to 2.3S-27,
			and Figure 2.1S-3
02.03.04-6	74	2	Tier 2, 2.3S.4
02.03.04-7	74	2	Tier 2, 2.3S.4
02.03.05-1	20	2	Tier 2, 2.3S.5
02.03.05-2	20	2	Tier 2, 2.3S.5

RAI Question No.	RAI Letter No.	Part	Section(s)
02.03.05-3	30	2	Tier 2, Tables 2.3S-26 and 2.3S-27
02.03.05-6	64	2	Tier 2, 2.3S.5
02.03.05-7	64	2	Tier 2, 2.3S.5
02.03.05-9	72	2	Tier 2, 2.3S.5
02.03.05-10	72	2	Tier 2, Table 2.3S-29
02.04.01-2	42	2	Tier 2, 2.4S.1
02.04.03-4	32	2	Tier 2, 2.4S.3
02.04.03-5	32	2	Tier 2, 2.4S.3
02.04.03-6	32	2	Tier 2, 2.4S.3
02.04.03-7	32	2	Tier 2, 2.4S.3
02.04.03-8	32	2	Tier 2, 2.4S.3
02.04.04-8 (NOTE)	33 Revised	2	Tier 2, 2.4S.4
02.04.04-9 (NOTE)	33 Revised	2	Tier 1, Table 5.0
(,			Tier 2, Table 2.0-2, 2.4S.1, 2.4S.2, 2.4S.4, and
			2.4S.4 Tables and Figures (various)
02.04.06-1	35	2	Tier 2, 2.4S.6
02.04.08-1	44	2	Tier 2, 2.4S.8
02.04.11-1	38	2	Tier 2, 2.4S.11
02.04.12-1	39	2	Tier 2, 2.4S.12
02.04.12-2	39	2	Tier 2, Table 2.4S.12-14
02.04.12-4	39	2	Tier 2, 2.4S.12
02.04.12-6	39	2	Tier 2, 2.4S.12
02.04.12-7	39	2	Tier 2, 2.4S.12
02.04.12-8	39	2	Tier 2, 2.4S.12
02.04.12-9	39	2	Tier 2, 2.4S.12
02.04.12-10	39	2	Tier 2, 2.4S.12
02.04.12-11	39	2	Tier 2, 2.4S.12
02.04.12-15	39	2	Tier 2, 2.4S.13
02.04.12-17	39	2	Tier 2, 2.4S.12
02.04.12-19	39	2	Tier 2, 2.4S.12
02.04.12-21	39	2	Tier 2, 2.4S.12
02.04.12-22	39	2	Tier 2, 2.4S.12
02.04.12-23	39	2	Tier 2, 2.4S.12
02.04.12-24	39	2	Tier 2, 2.4S.12
02.04.12-25	39	2	Tier 2, 2.4S.12
02.04.13-3	40	$\frac{2}{2}$	Tier 2, 2.4S.12
02.04.13-4	40	2	Tier 2, 2.4S.12, 2.4S.13
02.04.13-5	40	2	Tier 2, 2.4S.13
02.04.13-6	40	2	Tier 2, 2.4S.13
02.04.13-7	40	2	Tier 2, 2.4S.13
02.04.13-9	40	2	Tier 2, 2.4S.13
02.04.13-10 (NOTE)	40	2	Tier 2, 2.4S.13

RAI Question No.	RAI Letter No.	Part	Section(s)
02.05.01-1	49	2	Tier 2, 2.5S.1
02.05.01-2	49	2	Tier 2, Figures 2.5S.1-15, 2.5S.1-21, and 2.5S.1-22
02.05.01-5	49	2	Tier 2, 2.5S.1
02.05.01-8	49	2	Tier 2, Figures 2.5S.1-41 and 2.5S.1-45
02.05.01-9	49	2	Tier 2, 2.5S.1
02.05.01-13	49	2	Tier 2, 2.5S.1, Figures 2.5S.1-43 and 2.5S.1-45
02.05.01-14	49	2	Tier 2, 2.5S.1
02.05.01-17	49	2	Tier 2, Figure 2.5S.1-17
02.05.02-3	50	2	Tier 2, 2.5S.2
02.05.02-8	50	2	Tier 2, Figure 2.5S.2-7
02.05.02-10	50	2	Tier 2, 2.5S.2
02.05.02-10	50	2	Tier 2, 2.58.2
02.05.02-12	117	$\frac{2}{2}$	Tier 2, 2.58.2 (various) and 2.58.4 (various),
02.03.02-19	117	2	
			Tables 2.5S.2-17 to 2.5S.2-20, Figures 2.5S.2-32 to
			2.5S.2-51, Tables 2.5S.4-27 to 2.5S.4-34, and
			Figures 2.5S.4-40 to 2.5S.4-47 and 2.5S.4-57 to
02.05.02.4	<i>E</i> 1		2.5S.4-68
02.05.03-4	51	2	Tier 2, 2.5S.3 (various)
02.05.04-2	52	2	Tier 2, 2.5S.4 (various)
02.05.04-3	52	2	Tier 2, 2.5S.4 (various)
02.05.04-4	52	2	Tier 2, 2.5S.4 (various)
02.05.04-11	52	2	Tier 2, 2.5S.4 (various), Table 2.5S.4-16
02.05.04-13 (NOTE)	62	2	Tier 2, 2.5S.4 (various), and 2.5S.4 Tables and Figures (various)
02.05.04-15	62	2	Tier 2, 2.5S.4 (various),
			and 2.5S.4 Tables and Figures (various)
02.05.04-16	78	2	Tier 2, 2.5S.4
02.05.04-19	78	2	Tier 2, 2.5S.4
02.05.04-21	78	2	Tier 2, 2.5S.4
03.04.01-3	2	2	Tier 2, 1.2.2.16.15
03.04.01-5	4	2	Tier 2, 3.4.1.1.1 and 3.4.2
03.04.01-7	94	2	Tier 2, 3.4 (Table 3.4-1)
03.06.01-1	23	2	Tier 2, 3.6.5.1
03.07.01-2	157	2	Tier 2, 3.7.1, 3A (various)
03.07.01-8	157	2	Tier 2, 3C (various)
03.07.01-13	157	2	Tier 2, 3H.6 (various), Tables 3H.6-1 to 3H.6-9,
		_	and Figures 3H.6-1 to 3H.6-40
03.08.01-2	157	2	Tier 2, 3H
03.08.04-3	157	2	Tier 2, 3H.5.3 and 3H.5.5
03.09.03-2	87	2	Tier 2, 3.9.3.4.2
04.06-1	103	2	Tier 2, 13.5
05.02.05-2	47	7	2.2 (STD DEP 7.3-12)
03.02.03-2	141		2.2 (SID DEF 1.3-12)

RAI Question No.	RAI Letter No.	Part	Section(s)
05.02.05-3	48	2	Tier 2, 5.2.5.2.1
05.02.05-4	53	2	Tier 2, 5.2.6.1
05.03.01-1	82	2	Tier 2, 5.3.4.1
05.03.01-3	82	2	Tier 2, Table 13.4S-1
05.04.07-2	105	2	Tier 2, 7.3.1.1.3
05.04.07-5	105	2	Tier 2, 5.4.7.2.2
06.01.02-1	121	2	Tier 2, 6.1.3.1
06.02.01.01.C-1	76	$\frac{2}{2}$	Tier 2, 6.2.1.1 (various), 6.2.2.3.1, and 6.2.8,
(NOTE)		-	Table 6.2-1, and 6.2 Figures (various),
			Ch.16 (various)
		7	2.2 (STD DEP 6.2-2)
06.02.01.01.C-5	76	2	Tier 2, 3B.4.1
06.02.01.01.C-6	76	2	Tier 2, 3B.4.2.1, 3B.7, Table 3B-1, and
(NOTE)	1.0	_	Figures 3B-12 and 3B-13
		7	2.3 (STD DEP 3B-2)
07.01-1 (NOTE)	104	2	7.1S (new)
07.01-4	104	2	Tier 1, 2.2.7, and Figure 3.4b
· · · · · ·		_	Tier 2, Figures 7.1-2 and 7.2-9, 7.3 (Figure 7.3-2),
			and 7.9S
08.01-1	96	2	Tier 2, Table 8.1-1,
08.02-4	95	2	Tier 2, 8.2.1
08.02-7	95	2	Tier 2, Table 8.2-3
08.02-12	95	2	Tier 2, 8.2.1
09.01.03-1	25	2	Tier 2, 9.1.6.10
09.01.04-1	45	2	Tier 2, 9.1.4.2.7.2
09.01.04-2	45	2	Tier 2, 9.1.4.2.7.1
09.01.04-5	45	2	Tier 2, 9.1.4.2.3.5, and 9.1.4.2.7.3
09.01.05-1	55	2	Tier 2, 9.1.6.6
09.01.05-2 (NOTE)	55	2	Tier 2, Table 1.8-21
09.03.03-3	27	2	Tier 2, 9.3.3.2
09.05.02-1	104	2	Tier 2, Figure 9.5-2
10.03-1	6	2	Tier 2, 10.3.7.1
10.03-2	22	2	Tier 2, 10.3.2.1
10000		7	3.0 (STD DEP 10.3-1)
10.04.03-2	13	2	Tier 2, 10.4.3.3
10.04.03-3	14	2	Tier 2, 10.4 (Figure 10.4-2)
10.04.05-1	54	2	Tier 2, 10.4.5.7.2 and 10.4.5.8.2
		9	3.0, Table 3.0-9
10.04.07-2	24	2	Tier 2, 10.4.7.2.2
11.04-2	43	2	Tier 2, 11.4.3
11.04-3	97	2	Tier 2, 11.4.2.2.6
12.02-1	73	2	Tier 2, 12.2.2.1
			1, 1

RAI Question No.	RAI Letter No.	Part	Section(s)
13.03-4	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-5	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-6	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-10	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-12	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-14	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-16	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-17	56	5	5.4, Evacuation Time Estimate (ETE)
13.03-19	56	5	5.3, Table of Contents
13.03-20	56	5	5.1 (E Plan), A, C, E, J, M, and N
13.03-21	56	5	5.1, A.7
13.03-22	56	5	5.1, D.1 and D.2
13.03-24	56	5	5.1, Attachment 1
13.03-25	56	5	5.1, B.4.7, B.4.8, B.4.9, and B.4.10
13.03-26	56	5	5.1, B.5.2 (Figure F-2)
13.03-28	56	5	5.1, B.5.11 and B.5.17
13.03-29	56	5	5.1, B.6.2
13.03-30	56	5	5.1, Attachment 1
13.03-31	56	5	5.1, C.3.7
13.03-32	56	5	5.1, C.3.6
13.03-33	56	5	5.1, Figure B-1
13.03-34	56	5	5.1, Table B-1
13.03-35	56	5	5.1, Attachment 1
13.03-36	56	5	5.1, C.4.8
13.03-37	56	5	5.1, Attachment 1
13.03-38 (NOTE)	56	5	5.1, Table C-1
13.03-40 (NOTE)	56	5	5.1, G.2, G.3, and G.4
13.03-41	56	5	5.1, Attachment 1
13.03-42	56	5	5.1, B.5.2
13.03-43	56	5	5.1, Attachment 1
13.03-44	56	5	5.1, Attachment 1
13.03-45	56	5	5.1, G.9
13.03-46	- 56	5	5.1, D.1
13.03-51	56	5	5.1, Attachment 1
13.03-52	57	5	5.1, K.1.3
13.03-55	57	5	5.1, Figures G-5, G-6, and G-7
13.03-61	56	5	5.1, Attachment 1
13.03-68	57	5	5.1, Attachment 2
13.03-72 (NOTE)	247	5	5.1, D.1, and 5.3
14.02-5	142	2	Tier 2, 14.2S.12.1.81
14.03.05-1	83	2	Tier 1, Table 2.7.5
		9	2.0, Table 2.7.5

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14.03.05-2	83	9	3.0, Tables 3.0-1 and 3.0-5
14.03.05-3	83	9	3.0, Table 3.0-2
14.03.06-1	83	2	Tier 1, Table 2.2.1
,		9	2.0, Table 2.2.1
14.03.06-2	83	2	Tier 1, Table 2.3.3
		9	2.0, Table 2.3.3
14.03.06-3	83	9	3.0, Table 3.0-1
14.03.06-4	83	9	3.0, Table 3.0-2
14.03.07-1	. 83	9	3.0, Table 3.0-1
14.03.07-2	83	9	3.0, Table 3.0-1
14.03.07-3	83	9	3.0, Table 3.0-3
14.03.10-1	60	9	4.0, Table 4.0-1
14.03.10-2	60	9	4.0, Table 4.0-1
14.03.10-3	60	9	4.0, Table 4.0-1
14.03.10-4	60	9	4.0, Table 4.0-1
14.03.10-5	60	9	4.0, Table 4.0-1
14.03.10-6	60	9	4.0, Table 4.0-1
14.03.10-7	60	9	4.0, Table 4.0-1
14.03.10-8	60	9	4.0, Table 4.0-1
14.03.10-9	60	9	4.0, Table 4.0-1
14.03.10-10	60	9	4.0, Table 4.0-1
14.03.10-11	60	9	4.0, Table 4.0-1
14.03.10-12	60	9	4.0, Table 4.0-1
14.03.10-13	60	9	4.0, Table 4.0-1
15.01.01-15.01.04-1	111	2	Tier 2, 15.1S, Table 15.1S-2
15.08-1	112	2	Tier 2, 15E.4
16-1	101	2	Tier 2, Chapter 16 (various)
		4	(various)
,		7	(various)
19.01-2	124	2	Tier 2, 19R.4.4
19.01-3	124	2	Tier 2, 19R.4.6
19.01-9	124	2	Tier 2, 19R.7.2, 19R.7.4.1
19.01-11	124	2	Tier 2, 19.4.5, 19Q.6, and 19R.7 (various)
19.01-12	124	2	Tier 2, 19K.11.1
19-8	124	2	Tier 2, 19.2 (Table 19.2-2)
19-20	161	2	Tier 2, 19Q.6

NOTE: RAI response is supplemented, amended or revised.

Table 2: Environmental RAI Responses for Part 3, Environmental Report (ER)

ER RAI	ER RAI	Part 3 ER
Question No.	Letter No.	Section(s)
02.02-01	1	02.02
02.02.01-01	1	02.02
02.03-06	2	03.03 and 10.05S
02.03-07	1	02.03
02.03-08	1	02.03
02.03-08	2	02.03
02.03-09	1	02.03
02.03-10	1	02.03
02.03-13	1	02.03
02.03-14	1	02.03
02.04.01-01	1	02.04
02.04.01-02	1	02.04 and 04.03
02.04.01-05	1	05.03
02.04.02-05	1	02.04
02.04.02-06	1	02.04
02.04.02-08	1	02.04, 04.01, 04.02, and 04.03
02.04.02-10	1	02.02
02.05-02	1	02.05
02.05-05	1	02.05
02.05-07	1	02.05
02.05-08	1	02.05
02.05-09	1	02.05
02.05-11	1	02.05
02.05-13	1	02.05
02.05-14	1	02.05
02.05-15	1	05.08
02.05-18	1	02.05
02.05-19	1	02.05
02.05-20	1	02.05
02.05-21	1	02.05
02.05-25	1	02.05
02.05-28	1	02.05
02.05-29	1	02.05
02.06-01	1	02.06
02.07-01	1	02.07
02.07-04	1	02.07
02.07-05	1	03.098
03.04.01-01	i i	05.03
04.02-11	1	04.02
04.03.01-01	1	04.03

ER RAI	ER RAI	Part 3 ER
Question No.	Letter No.	Section(s)
04.03.01-02	1	04.03
04.03.02-04	1	04.03
04.04-01	1	03.10S
04.04-02	1	03.10S
04.04-03	1	04.04
04.04-04	1	04.04
04.04-05	1	04.04
04.04-06	1	04.04
04.04-07	1	04.04
04.04-08	1	04.04
04.04-10	1	04.04
04.04-10	2	04.04
04.04-11	1	04.04
04.04-12	1	04.04
04.04-13	1	04.04
04.04-19	1	02.05
05.02-02	1	04.02
05.03.03.01-01	2	05.03
05.03.03.01-02	1	05.03
05.04.01-01	1	05.04
05.04.01-01(b)	3	05.04
05.04.01-02	1	05.04
05.08-01	1	05.08
05.08-02	1	05.08
05.08-03	1	05.08
05.08-04	1	05.08
05.10-02	1	05.10
05.10-03	1	05.10
07.01-01	1	07.01
07.01-02	1	07.01
07.02-03	1	07.02
07.02-04	1	07.02
07.02-05	1	07.02
07.02-07	1	07.02
07.02-07	2	07.02
08.00-01	1	01.01, 08.00, and 08.01
09.02.03-02	2	09.02
09.03.02-01	1	09.03
09.03.02-02	1	09.03
09.03.02-03	1	09.03
09.03.02-04	1 .	09.03
09.03.03-01	1	09.03

ER RAI Question No.	ER RAI Letter No.	Part 3 ER Section(s)
09.03.03-02	1	09.03
09.03.03-03	1	09.03
09.03-01	1	09.03
09.03-01	2	09.03
09.03-02	1	09.03
09.03-02	2	09.03
09.03-03	1	09.03
09.03-04	1	09.03
09.03-04	2	09.03
09.03-05	1	09.03
09.03-06	1	09.03
09.03-07	1	09.03
09.03-08	1	09.03
09.03-09	2	09.03
10.05S-03	1	04.06
10.05S-03	2	03.09S, 04.01, 04.04, 09.02,
		10.02, 10.04, and 10.05S